

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW TRAFFIC SIGNAL AT US 113 (WORCHESTER) AND BISHOPVILLE ROAD IN WORCESTER COUNTY. US 113 (WORCESTER) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA (6) SIX-PHASE FULLY-TRAFFIC-ACTUATED MODE WITH SOUTHBOUND AND NORTHBOUND US 113 APPROACHES OPERATING CONCURRENTLY. THE EASTBOUND AND WESTBOUND BISHOPVILLE ROAD APPROACHS WILL OPERATE CONCURRENTLY. EXCLUSIVE LEFT TURNS WILL BE PROVIDED FOR US 113 APPROACHES.

CONTROLLER REQUIREMENTS:

A FULLY TRAFFIC ACTUATED EIGHT- PHASE TRAFFIC SIGNAL CONTROLLER IN A BASE - MOUNTED SYSTEM - READY CABINET WITH VIDEO CAMERA DETECTION WILL BE INSTALLED AT THIS INTERSECTION.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR:

CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
900000	900000	1 EA.	FURNISH NEMA 6 BASE MOUNTED CABINET AND CONTROLLER WITH VIDEO DETECTION INTERFACE EQUIPMENT
900000	900000	2 EA.	FURNISH FOUR CHANNEL RACK MOUNTED LOOP DETECTOR AMPLIFIER
900000	900000	351 S.F.	FURNISH SHEET ALUMINUM SIGNS
		- 2 EA	R10-12 SIGN 36"x42"
		- 4 EA	R3-5 SIGN 30"x36"
		- 8 EA	D3-2 SIGN 16"x96"
		- 2 EA	R3-7R SIGN 48"x48"
		- 6 EA	W3-3 SIGN 48"x48"
- 1 EA			ASSOCIATED SHIELD ASSEMBLY *SOUTH, US 113, RIGHT ARROW* (30"x51") - GROUND MOUNT
- 1 EA			ASSOCIATED SHIELD ASSEMBLY *NORTH, US 113, RIGHT ARROW* (30"x51") - GROUND MOUNT
- 1 EA			ASSOCIATED SHIELD ASSEMBLY *NORTH, US 113, LEFT ARROW* (48"x75") - GROUND MOUNT
- 1 EA			ASSOCIATED SHIELD ASSEMBLY *SOUTH, US 113, LEFT ARROW* (48"x75") - GROUND MOUNT
- 1 EA			ASSOCIATED SHIELD ASSEMBLY *EAST, MD 367, LEFT ARROW* (48"x75") - GROUND MOUNT
- 1 EA			ASSOCIATED SHIELD ASSEMBLY *EAST, MD 367, RIGHT ARROW* (30"x51") - GROUND MOUNT

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
120500	104	L.S.	MAINTENANCE OF TRAFFIC
203030	205	4 C.Y.	TEST PIT
585624	SP-555	170 L.F.	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)
800000		L.S.	REMOVE AND DISPOSE OF EXISTING EQUIPMENT.
800000		4 EA.	FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 500 FT. LEAD-IN. (NON EVASIVE)
800000		4 EA.	FURNISH AND INSTALL MICRO LOOP PROBE SET W/ 1000 FT. LEAD-IN. (NON EVASIVE)
800000		4 EA.	FURNISH AND INSTALL VIDEO DETECTION CAMERAS.
800000		4 EA.	FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE.
818052	818	2 EA.	FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE W/ 70 FT MAST ARMS
818036	818	1 EA.	FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE W/ 50 FT MAST ARM.
818030	818	1 EA.	FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE W/ 38 FT MAST ARM.

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
801004	801	21 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
801106	812	364 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4" X 6".
802501	810	450 L.F.	FURNISH AND INSTALL STANDARAD BARE COPPER GROUND WIRE (NO. 6 AWG)
810010	810	100 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 WIRE NO. 4 AWG THHN/THWN
811001	811	16 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
813014	813	235 S.F.	INSTALL GROUND MOUNTED SIGN.
813015	813	116 S.F.	INSTALL OVERHEAD SIGN.
831010	806	2 EA.	FURNISH AND INSTALL 250 WATT HPS LAMP AND LUMINAIRE
837001	804	5 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIA. X 10 FT. LENGTH.
838003	807	1 EA.	FURNISH AND INSTALL CONTROL AND DISTRIBUTION (120/240, 1 PHASE 3 WIRE SYSTEM).
860272	814	42 EA.	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)
861107	810	1590 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	810	910 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	810	455 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
866104	806	2 EA.	FURNISH AND INSTALL 20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
870160	805	300 L.F.	FURNISH AND INSTALL 2 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED
870163	805	1200 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED
870164	805	250 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED
870166	805	100 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED
870167	805	350 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED
871202	805	1 EA.	INSTALL CONTROLLER AND CABINET - BASE MOUNTED

PROJECT CONTACTS

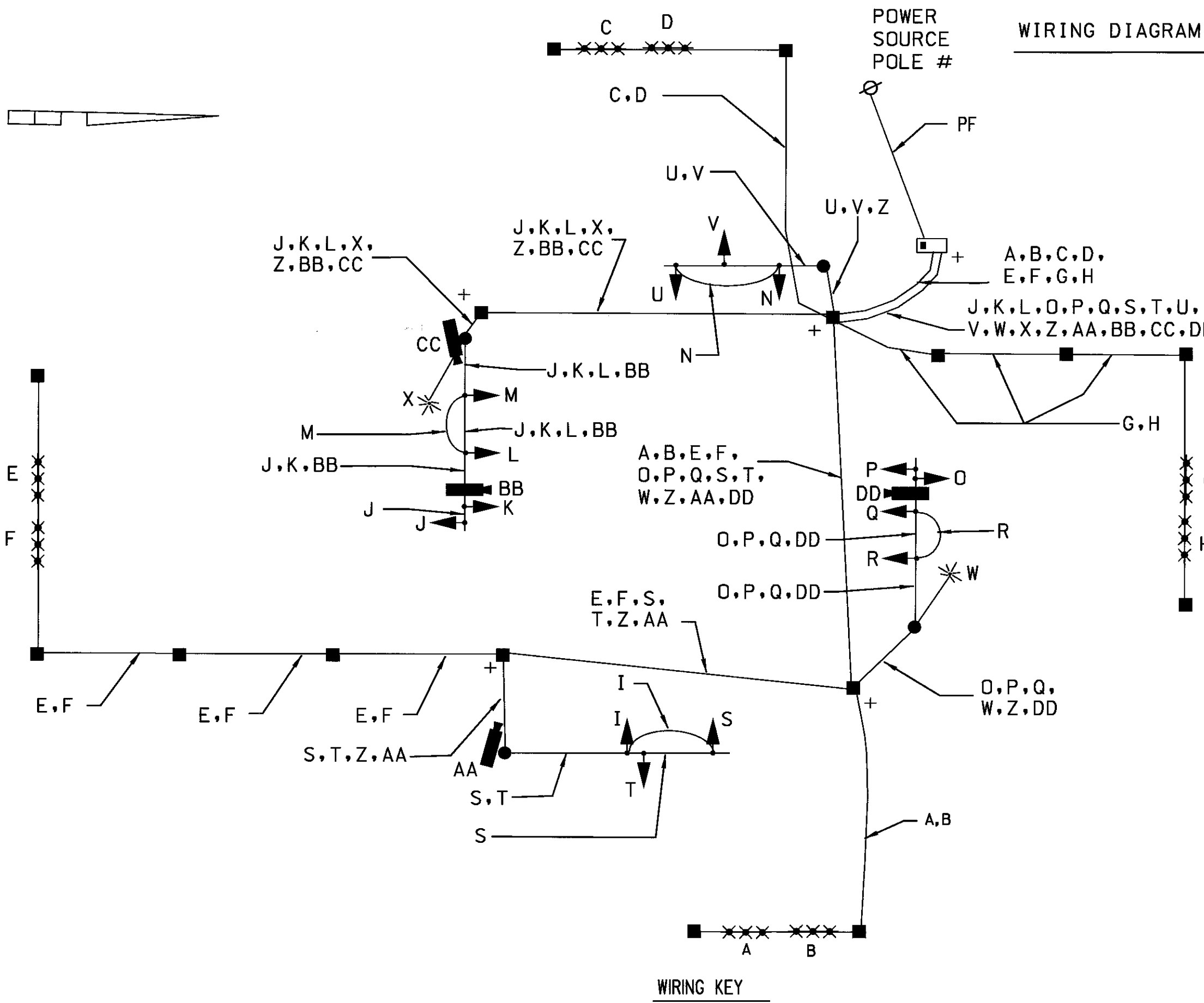
THE CONTACT PERSONS FOR DISTRICT #2 ARE AS FOLLOWS:

MR. GENE COFIELL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 677-4040

MR. BRUCE POOLE
UTILITY ENGINEER
PHONE: (410) 677-4082

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS:
CONECTIV POWER
MR. CHRIS SMITH
PHONE: (410) 860-6036



- A - H } PROBES
- I - R } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- S - V } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- W, X } 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- AA, BB, CC, DD } VIDEO CABLE FOR CAMERA
- Z } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- PF - POWER FEED (NO. 4 A.W.G.)
- + - 3/4 IN. x 10 FT. GROUND ROD

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1+5	-G-	-G-	R	R	-G-	-G-	R	R	R	R	R	R	R	R
PHASE 1+5 CHANGE TO PHASE 1+6 OR PHASE 2+5	-G-	-G-	G	G	-R-	-R-	R	R	R	R	R	R	R	R
PHASE 1+6	-G-	-G-	G	G	-R-	-R-	R	R	R	R	R	R	R	R
1+6 CHANGE	-Y-	-Y-	G	G	-R-	-R-	R	R	R	R	R	R	R	R
PHASE 2+5	-R-	-R-	R	R	-G-	-G-	G	G	R	R	R	R	R	R
2+5 CHANGE	-R-	-R-	R	R	-Y-	-Y-	G	G	R	R	R	R	R	R
PHASE 2+6	-R-	-R-	G	G	-R-	-R-	G	G	R	R	R	R	R	R
2+6 CHANGE	-R-	-R-	Y	Y	-R-	-R-	Y	Y	R	R	R	R	R	R
PHASE 4 + 8	-R-	-R-	R	R	-R-	-R-	R	R	G	G	G	G	G	G
4 + 8 CHANGE	-R-	-R-	R	R	-R-	-R-	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

TS-2



REVISIONS		MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNAL GENERAL INFORMATION US 113 (WORCESTER) AT BISHOPVILLE RD			
DRAWN BY: C. MUNZ CHECKED BY: M. J. W. <i>10/2</i> SCALE: NONE DATE: 10/07/02		F.A.P. NO. SEE TITLE SHEET S.H.A. NO. W07475170 COUNTY: WORCESTER LOG MILE:		TS NO. 4192 SHEET NO. 60 OF 60	